

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method comprising:
- deciding a bearer service profile type according to a bearer service combination type of said bearer service to provide said bearer service;
- selecting a transport format within a transport format combination set according to the decided bearer service profile type; and
- transmitting a transport format indicator to indicate the selected transport format;
- transmitting a transport format combination indicator including the transport format to a dedicated physical control channel.
2. (Previously Presented) The method as set forth in Claim 1, wherein said bearer service profile type includes a service type and a radio environment information.
3. (Original) The method as set forth in Claim 2, wherein said service type includes said bearer service combination type and a bearer service class type.
4. (Original) The method as set forth in Claim 3, wherein said bearer service combination type includes a bearer service category defined by a combination of speech, circuit

data and packet data services, said bearer service category including any one of only said speech service, only said circuit data service, only said packet data service, a combination of simultaneous speech and packet data services, a combination of simultaneous speech and circuit data services, a combination of simultaneous packet data and circuit data services and a combination of simultaneous speech, packet data and circuit data services.

5. (Original) The method as set forth in Claim 3, wherein said bearer service class type includes any one of first to fourth classes, said first class having connection oriented and delay constrained characteristics for low delay data, said second class having variable bit rate, connection oriented and delay constrained characteristics for low delay data at a variable bit rate, said third class having connection oriented and delay constrained characteristics for long constrained delay data, said forth class having connectless and delay unconstrained characteristics for unconstrained delay data.

6. (Previously Presented) The method as set forth in Claim 2, wherein:
said radio environment information includes one of an indoor environment model, an outdoor to indoor and pedestrian environment model and a vehicular environment model;
said radio environment information is based on periodic, on-demand and threshold information.

7. (Previously Presented) The method as set forth in Claim 1, wherein setting said transport format includes attributes of a dynamic part and semi-static part of transport formats according to said transport format indicator.

8. (Previously Presented) The method as set forth in Claim 7, wherein said attributes of said dynamic part include at least one of a transport block size and a transport block set size.

9. (Previously Presented) The method as set forth in Claim 7, wherein said attributes of said semi-static part include at least one of a transport time interval, a type of channel coding, outer coding, outer interleaving, inner coding, inner interleaving and rate matching.

10. (Previously Presented) A method comprising:

deciding a bearer service combination type of a bearer service for a mobile station and a base station;

measuring a radio environment between said mobile station and said base station;

deciding a bearer service profile type according to said bearer service combination type and said radio environment;

assigning a transport format combination set according to said bearer service profile type;

selecting a transport formats within said assigned transport format combination set and transmitting a transport format indicator to indicate said selected transport format; and

configuring said transport format including attributes of a dynamic part and semi-static part according to said transport format indicator, transmitting a transport format combination indicator to a dedicated physical control channel.

11. (Previously Presented) The method as set forth in Claim 10, wherein:

measuring includes determining whether said radio environment includes one of an indoor environment model, an outdoor to indoor and pedestrian environment model and a vehicular environment model; and

Cont B² said radio environment information is based on periodic, on-demand and threshold information.

12. (Previously Presented) The method as set forth in Claim 10, wherein said attributes of said dynamic part include a transport block size and a transport block set size.

13. (Previously Presented) The method as set forth in Claim 10, wherein said attributes of said semi-static part include at least one of a transport time interval, a type of channel coding, outer coding, outer interleaving, inner coding, inner interleaving and rate matching.

14. (Cancelled)

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15. (Cancelled)

16. (Cancelled)

17. (Cancelled)

18. (Cancelled)

19. (Cancelled)

20. (Cancelled)

21. (Cancelled)

22. (Cancelled)

23. (Cancelled)

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26. (Cancelled)

27. (Cancelled)

28. (Cancelled)

29. (Cancelled)

30. (Cancelled)

31. (Cancelled)

32. (Cancelled)

33. (Cancelled)

34. (Previously Presented) A method comprising:

determining at least one type of wireless service;

determining a radio environment measurement; and

determining a transport format combination set according to said at least one type of wireless service and said radio environment measurement.

35. (Previously Presented) The method of claim 34, wherein said determining at least one type of wireless service is implemented in an application layer.

36. (Previously Presented) The method of claim 34, wherein said determining a radio environment measurement is implemented in a radio resource control layer.

37. (Previously Presented) The method of claim 34, wherein said determining the transport format combination set is implemented in a radio resource control layer.

38. (Previously Presented) The method of claim 34, wherein said determining at least one type of wireless service is deciding a bearer service combination type.

39. (Previously Presented) The method of claim 34, wherein said at least one type of wireless service comprises speech service.

40. (Previously Presented) The method of claim 34, wherein said at least one type of wireless service comprises circuit data service.

41. (Previously Presented) The method of claim 34, wherein said at least one type of wireless service comprises packet data service.

42. (Previously Presented) The method of claim 34, wherein said at least one type of wireless service comprises a combination of simultaneous speech service and packet data service.

43. (Previously Presented) The method of claim 34, wherein said at least one type of wireless service comprises a combination of simultaneous packet data service and circuit data service.

44. (Previously Presented) The method of claim 34, wherein said at least one type of wireless service comprises a combination of speech service and circuit data service.

45. (Previously Presented) The method of claim 34, wherein said at least one type of wireless service comprises a combination of simultaneous speech service, packet data service, and circuit data service.

46. (Previously Presented) The method of claim 34, wherein said determining the radio environment measurement comprises determining one of:

an indoor environment model;

a pedestrian environment model; and

a vehicular environment model.

47. (Previously Presented) The method of claim 34, wherein said determining the transport format combination set includes deciding a radio bearer service profile type.

48. (Previously Presented) The method of claim 34, wherein said determining the transport format combination set is implemented in a radio resource layer.

49. (Previously Presented) The method of claim 48, comprising transferring the transport format combination set to a medium access control layer.

50. (Previously Presented) The method of claim 48, comprising transferring the transport format combination set to a physical layer.

51. (Previously Presented) The method of claim 34, comprising selecting at least one transport format within the transport format combination set.

52. (Previously Presented) The method of claim 51, wherein said at least one transport format is within a transport format set.

53. (Previously Presented) The method of claim 51, wherein said selecting at least one transport format is implemented in a medium access control layer.

54. (Previously Presented) The method of claim 34, comprising transferring a transport format indicator to a physical layer.

55. (Previously Presented) The method of claim 54, wherein the physical layer transmits a transport format combination indicator to a dedicated physical control channel based on the transport format indicator.

56. (Previously Presented) The method of claim 55, wherein the dedicated physical control channel is a channel between two wireless devices.

57. (Previously Presented) The method of claim 56, wherein the two wireless devices comprise at least one of a mobile station and a base station.

58. (Previously Presented) An apparatus configured to implement the method of claim 34.

59. (Previously Presented) The apparatus of claim 58, wherein the apparatus is a base station.

60. (Previously Presented) The apparatus of claim 58, wherein the apparatus is a mobile station.

61. (Previously Presented) A method for providing radio bearer service in a mobile communication system, comprising:

receiving a bearer service type from an upper layer;

receiving radio environment information from a mobile station; and

determining and transmitting a transport format combination set based on the bearer service type and the radio environment.

62. (Currently Amended) A method for transmitting a transport format combination indicator to communicate with a receiver in a mobile communication system, comprising:

receiving a bearer service type from an upper layer;

determining and transmitting a transport format combination set based on the bearer service type;

configuring a transport format combination indicator including at least one attribute of a dynamic part and a semi-static part based on the transport format combination set and a the transport format indicator; and

transmitting the transport format combination indicator on a dedicated physical control channel.
